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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency  
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
NEWS 6 Mar 08 Gene Names now available in BIOSIS  
NEWS 7 Mar 22 TOXLIT no longer available  
NEWS 8 Mar 22 TRCTHERMO no longer available  
NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAPLUS and USPATFULL  
NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY  
NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.  
NEWS 12 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 14 Apr 09 ZDB will be removed from STN  
NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available  
  
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:34:50 ON 03 MAY 2002

09903101

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 17:34:54 ON 03 MAY 2002

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STRUCTURE FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7

DICTIONARY FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS

Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

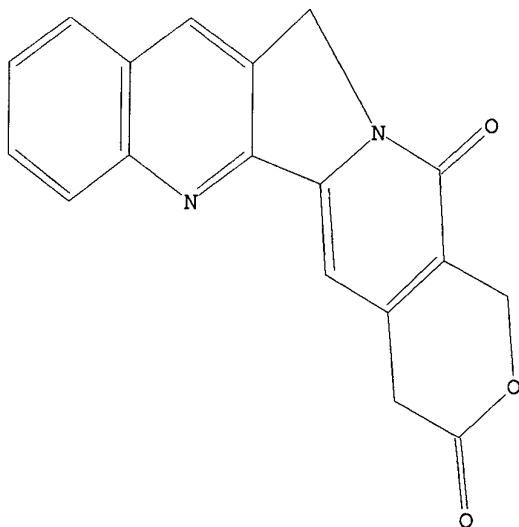
Uploading 09903101.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

09903101

=> s ll sss sam

SAMPLE SEARCH INITIATED 17:35:14 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 208 TO ITERATE

100.0% PROCESSED 208 ITERATIONS 50 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3295 TO 5025  
PROJECTED ANSWERS: 2956 TO 4604

L2 50 SEA SSS SAM L1

=> s ll full

FULL SEARCH INITIATED 17:35:18 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3772 TO ITERATE

100.0% PROCESSED 3772 ITERATIONS 3348 ANSWERS  
SEARCH TIME: 00.00.01

L3 3348 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	140.28	140.49

FILE 'CAPLUS' ENTERED AT 17:35:25 ON 03 MAY 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 3 May 2002 VOL 136 ISS 18  
FILE LAST UPDATED: 1 May 2002 (20020501/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l3 full

L4 3330 L3

09903101

FILE 'HOME' ENTERED AT 17:42:03 ON 03 MAY 2002

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 17:42:09 ON 03 MAY 2002

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STRUCTURE FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7

DICTIONARY FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 09903101b.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

09903101

=> fil casreact  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.76	0.97

FILE 'CASREACT' ENTERED AT 17:43:34 ON 03 MAY 2002  
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FILE CONTENT:1974 - 28 Apr 2002 VOL ISS

Some records from 1974 to 1991 are derived from the ZIC/VINITI data file and provided by InfoChem.

This file contains CAS Registry Numbers for easy and accurate substance identification.

Crossover limits have been increased. See HELP RNCROSSOVER for details.

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> s ll sss sam

SAMPLE SEARCH INITIATED 17:43:42 FILE 'CASREACT'  
SCREENING COMPLETE - 4 REACTIONS TO VERIFY FROM 1 DOCUMENTS

100.0% DONE 4 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 4 TO 199  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 ( 0 REACTIONS)

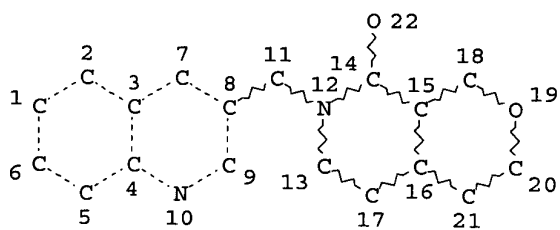
=> s ll full

FULL SEARCH INITIATED 17:43:49 FILE 'CASREACT'  
SCREENING COMPLETE - 288 REACTIONS TO VERIFY FROM 52 DOCUMENTS

100.0% DONE 288 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1 ( 0 REACTIONS)

L8 HAS NO ANSWERS  
L8 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RSPEC 13 8  
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

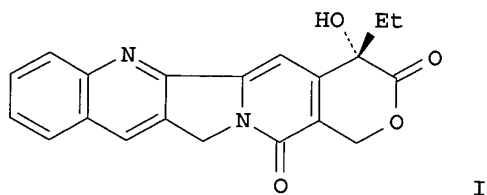
=> s l8 ful  
FULL SEARCH INITIATED 10:18:51 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 206 TO ITERATE

100.0% PROCESSED 206 ITERATIONS  
SEARCH TIME: 00.00.01

5 ANSWERS

L10 5 SEA SSS FUL L8

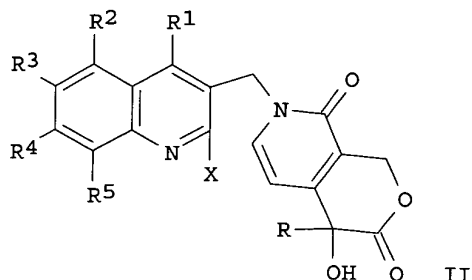
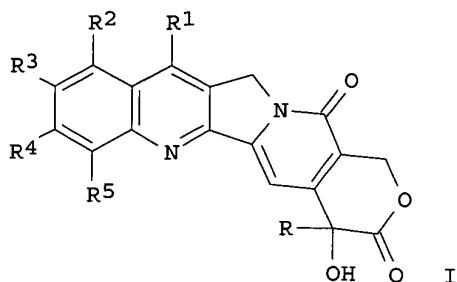
L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS  
 AN 2001:847228 CAPLUS  
 DN 136:118619  
 TI A Practical Six-Step Synthesis of (S)-Camptothecin  
 AU Comins, Daniel L.; Nolan, Jason M.  
 CS Department of Chemistry, North Carolina State University, Raleigh, NC,  
 27695-8204, USA  
 SO Organic Letters (2001), 3(26), 4255-4257  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PB American Chemical Society  
 DT Journal  
 LA English  
 GI



AB An asym. synthesis of (S)-camptothecin (I) has been accomplished in six  
 steps starting from two com. available heterocycles.  
 RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS  
 AN 1996:35028 CAPLUS  
 DN 124:146559  
 TI Preparation of camptothecin intermediates and synthesis of camptothecin  
 and camptothecin analogs  
 IN Comins, Daniel L.; Baevsky, Matthew F.  
 PA North Carolina State University, USA  
 SO U.S., 6 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5475108	A	19951212	US 1993-114475	19930831
	US 5478943	A	19951226	US 1995-410729	19950327
PRAI	US 1993-114475		19930831		
OS	CASREACT 124:146559; MARPAT 124:146559				
GI					

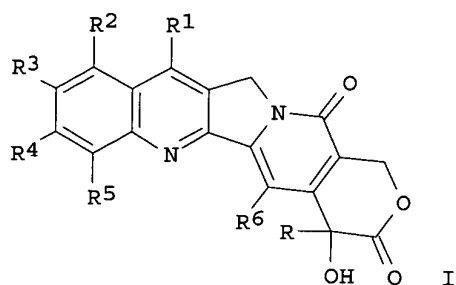


AB Camptothecin and camptothecin analogs I (R = loweralkyl; R1 = H, loweralkyl, loweralkoxy, halo; R2, R3, R4, R5 = H, amino, hydroxy, loweralkyl, lower alkoxy, lower alkylthio, di(lower alkyl)amino, cyano, methylenedioxy, formyl, nitro, halo, trifluoromethyl, aminomethyl, azido, amido, hydrazino, or any of the 29 std. amino acids bonded to the A ring via the amino-nitrogen atom) were prepd. by cyclizing II (X = Br, iodo) by an aryl-to-aryl free radical coupling reaction to yield a compd. Thus, 8-(2-bromo-3-quinolylmethyl)-2,7-dioxo-3-ethyl-3-hydroxy-3,6-dihydropyrido[5,4-c]pyran (II, X = Br), prepd. from 2,7-dioxo-3-ethyl-3-hydroxy-3,6-dihydropyrido[5,4-c]pyran and 2-bromo-3-(hydroxymethyl)quinoline, was cyclized by treatment with Bu<sub>3</sub>SnH in toluene contg. AIBN to give 55% (.-.-)-camptothecin.

L11 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:951497 CAPLUS  
 DN 124:56389  
 TI 14-Halocamptothecins  
 IN Comins, Daniel L.  
 PA North Carolina State University, USA  
 SO U.S., 9 pp. Cont.-in-part of U.S. 5, 428, 166.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5459269	A	19951017	US 1994-348452	19941202
	US 5212317	A	19930518	US 1992-900650	19920618
	US 5315007	A	19940524	US 1993-41782	19930401
	US 5428166	A	19950627	US 1994-226877	19940412
PRAI	US 1992-900650	A2	19920618		
	US 1993-41782	A2	19930401		
	US 1994-226877	A2	19940412		
	US 1990-632970	A2	19901220		
OS	CASREACT 124:56389; MARPAT 124:56389				
GI					





AB Camptothecins I (R = alkyl, alkylaryl, hydroxyalkyl, aryl; R1 = H, alkyl, alkoxy, alkylaryl, hydroxyalkyl, haloalkyl, aminoalkyl, dialkylamino, dialkylaminoalkyl, cycloaminoalkyl, aryl, aryloxy, nitro, cyano, halo, C-glycal, alkylthio, carboxylate ester; R2-R5 = H, amino, hydroxy, (un)substituted alkyl, aryl, alkoxy, alkylthio, alkylamino C-glycal, cyano, formyl, nitro halo, azido, amido, hydrazino; R3 and R4 may form a 5- of 6-membered arom. or dioxolane ring; R6 = halo) and intermediates in their prepn. were prepd. Thus, 7-methoxycarbonyl-7-ethyl-9-hydroxy-7,9-dihydrofuranol[4,5-c]-6-methoxypyridine prepd. by treating 2-methoxypyridine with Me<sub>3</sub>CLi and 2-bromomesitylene followed by reaction with N-formyl-N,N',N'-trimethylethylenediamine, cerium trichloride and Me .alpha.-oxobutyrate, was treated with aluminum isopropoxide followed by hydrolysis to give 7,2-dioxo-3-ethyl-3-hydroxy-3,6-dihydropyrido[5,4-c]pyran, which chlorinated with N-chlorosuccinimide and treated with 2-bromo-3-(bromomethyl)quinoline followed by cyclization of the product to give (S)-14-chlorocamptothecin.

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1994:701123 CAPLUS

DN 121:301123

TI A Six-Step Synthesis of (.+-.)-Camptothecin

AU Comins, Daniel L.; Hong, Hao; Saha, Jayanta K.; Jianhua, Gao

CS Department of Chemistry, North Carolina State University, Raleigh, NC, 27695-8204, USA

SO J. Org. Chem. (1994), 59(18), 5120-1

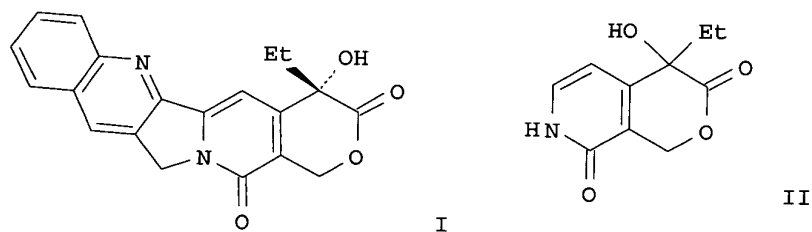
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

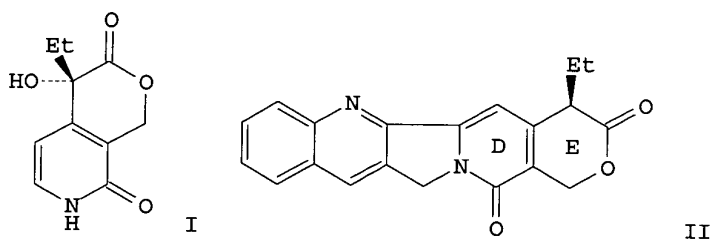
OS CASREACT 121:301123

GI



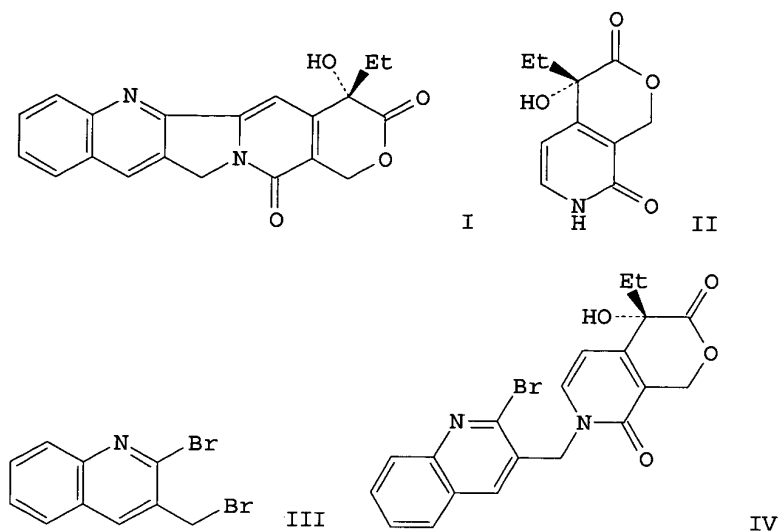
AB A six-step concise synthesis of (.+-.)-camptothecin (I) was achieved starting from 2-methoxypyridine and 2-bromoquinoline via hydroxylactone II and 2-bromo-3-(hydroxymethyl)quinoline.

L11 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:579942 CAPLUS  
 DN 121:179942  
 TI Asymmetric synthesis of camptothecin alkaloids: a nine-step synthesis of (S)-camptothecin  
 AU Comins, Daniel L.; Hong, Hao; Jianhua, Gao  
 CS Department of Chemistry, North Carolina State University, Raleigh, NC, 27695-8204, USA  
 SO Tetrahedron Lett. (1994), 35(30), 5331-4  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal  
 LA English  
 GI



AB DE ring camptothecin intermediate I was prepd. enantioselectively from 2-chloro-6 hydroxypyridine in six steps and used in a nine-step synthesis of (S)-camptothecin (II).

L11 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:169399 CAPLUS  
 DN 118:169399  
 TI A 10-step, asymmetric synthesis of (S)-camptothecin  
 AU Comins, Daniel L.; Baevsky, Matthew F.; Hong, Hao  
 CS Dep. Chem., North Carolina State Univ., Raleigh, NC, 27695, USA  
 SO J. Am. Chem. Soc. (1992), 114(27), 10971-2  
 CODEN: JACSAT; ISSN: 0002-7863  
 DT Journal  
 LA English  
 OS CASREACT 118:169399  
 GI



AB A practical sym. synthesis of (S)-camptothecin (I) was accomplished in ten steps from com. available 2-chloro-6-methoxypyridine and 2-chloroquinoline. The synthesis is convergent, combining enantiopure hydroxylactone II with bromoquinoline III through N-alkylation to give the ABDE ring intermediate IV. The final step required closure of the C-ring, which was accomplished using Heck cyclization to give enantiopure (S)-camptothecin. The overall yield of I was 11%.

L11 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1992:634326 CAPLUS

DN 117:234326

TI Preparation of camptothecin and analogs

IN Comins, Daniel L.; Baevsky, Matthew F.

PA North Carolina State University, USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

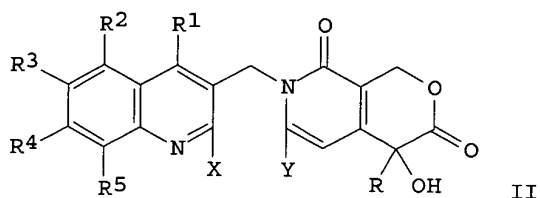
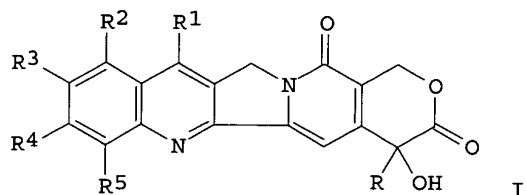
DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9211263	A1	19920709	WO 1991-US9598	19911218
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	US 5162532	A	19921110	US 1990-632970	19901220
	CA 2112351	AA	19920709	CA 1991-2112351	19911218
	CA 2112351	C	19980210		
	EP 565621	A1	19931020	EP 1992-903792	19911218
	EP 565621	B1	20000705		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
	JP 06504062	T2	19940512	JP 1991-503829	19911218
	EP 963988	A2	19991215	EP 1999-112300	19911218
	EP 963988	A3	20010711		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC				
	AT 194348	E	20000715	AT 1992-903792	19911218
	ES 2147728	T3	20001001	ES 1992-903792	19911218
	JP 2001055377	A2	20010227	JP 2000-224114	19911218
	JP 3141069	B2	20010305	JP 1992-503829	19911218
	US 5191082	A	19930302	US 1992-927217	19920810
	US 5200524	A	19930406	US 1992-927220	19920810
	US 5247089	A	19930921	US 1992-927219	19920810

US 5243050	A	19930907	US 1992-969790	19921029
US 5254690	A	19931019	US 1993-17026	19930212
US 5321140	A	19940614	US 1993-17648	19930212
JP 2001064257	A2	20010313	JP 2000-224113	20000725
JP 3234828	B2	20011204		
PRAI US 1990-632970	A1	19901220		
EP 1992-903792	A3	19911218		
JP 1992-503829	A3	19911218		
WO 1991-US9598	W	19911218		
US 1992-927217	A1	19920810		
US 1992-927220	A3	19920810		
OS	CASREACT 117:234326; MARPAT 117:234326			
GI				



AB Title compds. (I; R = alkyl; R1 = H, alkyl, alkoxy, halo; R2-R5 = H, amino, OH, alkyl, alkoxy, alkylthio, dialkylamino, cyano, methylenedioxy, CHO, NO2, halo, CF3, aminomethyl, N3, amido, H2NNH, amino acid residue bonded via N atom) were prepd. by cyclization of intermediate II (X = halo; Y = H). Thus, 7-oxopyrido[5,4-c]-2-oxo-3-ethyl-3-hydroxy-3,6-dihydropyran (prepn. starting from 6-chloro-2-methoxypyridine given) was stirred 30 min with KOCMe3 in Me2CHOH at 25.degree.; 3-chloromethyl-2-iodoquinoline (prepn. from 2-iodo-3-quinolinecarboxaldehyde given) in MeOH was added dropwise and the resulting mixt. was heated at 75.degree. for 24 h to give 80% II (X = iodo, R = Et, R1 = R2 = R3 = R4 = R5 = H, Y = H). The latter was heated with K2CO3, Bu4NBr, and Pd(OAc)2 in MeCN at 90.degree. for 5 h to give 47% (.+-.)-camptothecin.